Abstract of the Disclosure

A dynamic services infrastructure accepts data describing data resources and stores that
data in a relational database from which it may be retrieved to handle service requests issued by
application programs. The database stores Service Definition data which is initially supplied in
the form of XML Service Descriptor documents which are then mapped into the database from
which they may be accessed. Each Service Definition includes an input specification which
identifies the address of a resource as well as the nature of the input data to be supplied to the
resource with the request, and further includes an output specification which describes the nature
of the output information which is supplied by the resource in response to the request. The
Service Definition further includes information describing the service provider which supplies
the resource, test information including fixed input and output values which permit the
operability of the resource to be verified, update information which permits the infrastructure to
insure that the Service Definition information is kept current, and security information which
permits the system to validate users and provide secure encrypted information exchanges. When
a client sends a request for services to the infrastructure, obtains the service description for the
desired resource from the database, transmits an output information request to the address
specified in said the service description, supplying input information meeting the specification
contained in said particular service description to said particular resource, and receives and routs
output information provided by said particular resource in response to said output information
request to the executing application program.